

## July Meetings

### Dates & Times

Matinee 2:30 p.m., Wednesday, July 14, 1982  
Evenings, 8:00 p.m. Wednesday and  
Thursday, July 14 and 15, 1982

### Place

May Treat Morrison Auditorium

### Speaker

Dr. Donald Heyneman

### Subject

**"People, Parasites, Progress: Disease  
Effects of Technological Change in the  
Third World"**

Sleeping sickness, hookworm and malaria are distant and removed from most of us, but for many people of the world these diseases are very real. . . and very deadly. This month Dr. Donald Heyneman, Professor of Parasitology, University of California, San Francisco, will discuss his research which over the past 25 years has taken him to African and Southeast Asian tropics to study the health impacts that come to third world countries following technological changes.

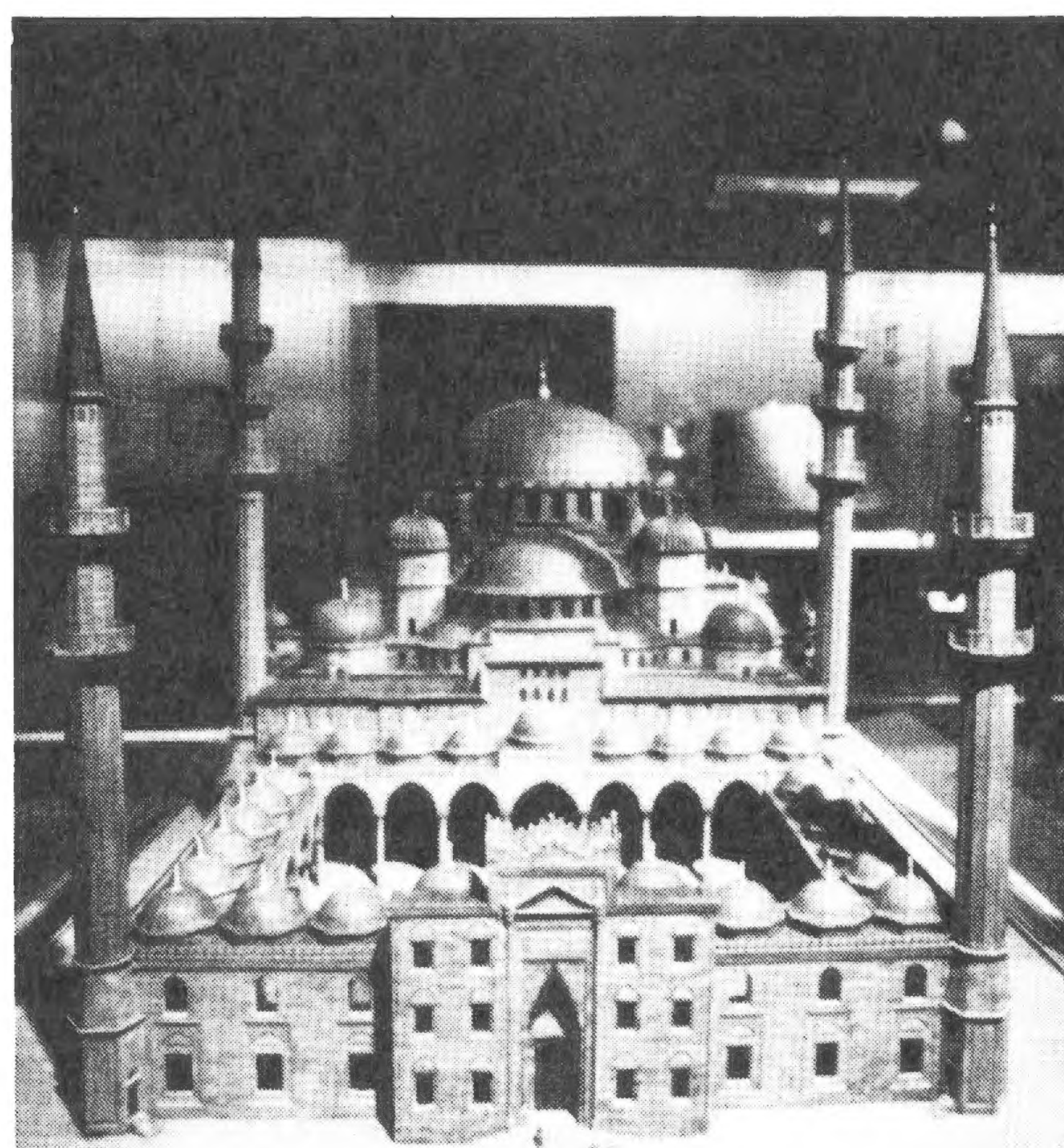
For instance, as vast areas of Nubian and Sudan desert come into cultivation an ancient blood worm found in 3000 year old Egyptian mummies enters the skin of new settlers from snail infested irrigation ditches, invading blood vessels and depositing millions of destructive eggs in adjacent tissues. The migration of African herdsmen into tsetse fly "belts" means almost certain death for cattle and jeopardizes the herdsmen themselves with sleeping sickness. Malaria kills a million African children each year, and hookworm drains blood and energy from many more.

The interface between humans and parasites, and the environments in which they meet, is the topic of this month's members' meetings.

As usual, your membership card will admit you to the Academy's main entrance at Cowell Hall, and through the Wattis Hall entrance (through the Ansel Adams exhibit!) for the matinee presentation. Please be prepared to show your card at the auditorium door for the afternoon meeting.

**SNEAK PREVIEW:** Dr. John McCosker, Director of Steinhart Aquarium, will discuss facts, fiction and biology of sharks at the August 11 and 12 Members' Meetings.

## Special Exhibits



**The Heritage of Islam** has been assembled to display to the American public for the first time a brilliant sampling of the great culture which stretches from West Africa through the Middle East into South and Southeast Asia. The collection presents Islamic art, architecture and science as they have evolved from the time of the founding of Islam over 1,400 years ago to the present. Visitors will see precious examples of the finest in Islamic ceramics, calligraphy, textiles and manuscripts drawn from the great collections of the United States, Europe and the Middle East. An accompanying film shows aspects of modern life in Islamic countries and a slide show allows a deeper understanding of the glories of Islamic architecture.

**The Heritage of Islam** is part of the San Francisco Summer Festival. (July 2 through September 26 in North American Hall).

For details on special classes and a lecture series on Islam see the Education and Travel section of this Newsletter.

Don't forget the **Special Members' Night** on Friday, July 2 from 6 to 9 p.m. in **"The Heritage of Islam"**. Feel free to bring a guest!

Members of the Academy will be pleased to learn about a special series to be aired on KQED-TV, Channel 9, called "The Traditional World of Islam" beginning Monday July 19 at 8:00 p.m. (reshown beginning Thursday, July 22 at 9:30 p.m. on Channel 32). The series, which will run for six consecutive weeks, fills an important information gap for the western world by focusing on the important contributions that Islamic civilization has made to the achievement of man. The various segments complement and enhance the themes of the exhibition, "The Heritage of Islam" opening July 2 at the Academy.

Continuing exhibits include: **Peoples of East Africa** - 23 watercolor portraits by Hayward artist Clarice Roberts (through September 9); **Dunescapes** - a color photo exhibit of inland sand dunes by Oakland photographer Pamela Roberson (through September 19); **Elephants Have the Right-of-Way** - an exhibit of color photos by Bill Sciallo; **Ansel Adams: The 80th Birthday Retrospective** - organized by Mary Alinder for the Monterey Peninsula Museum of Art and **The Unknown Ansel Adams** organized by Jim Alinder for The Friends of Photography (both through September 6, Labor Day)

## Morrison Planetarium

Telescopes, space probes, computers and the other complex tools of astronomers have helped science to solve many of the mysteries of the universe. Frequently, however, new discoveries bring with them new mysteries to ponder. These cosmic mysteries are the subject of the Morrison Planetarium's summer show, **Perplexities** which runs through September 12. Shows daily at 12:30, 2:00 and 3:30 p.m.; additional shows Wednesday through Friday at 11:00 a.m. and Wednesday and Thursday at 7:30 p.m.

Make a date on Saturday or Sunday at 11:00 a.m. to watch **Exploring the Skies of the Season**, a tour of the current night sky over San Francisco. Members may use their complimentary passes for free admission to both of these shows.



## Inside the Academy

## Light Shows

Rock with the stars in Eye See the Light Show, Inc's new light show opening June 25 entitled **Rock Stars**. (**Rock Stars** is replacing Rock Fantasy.) Showtimes:

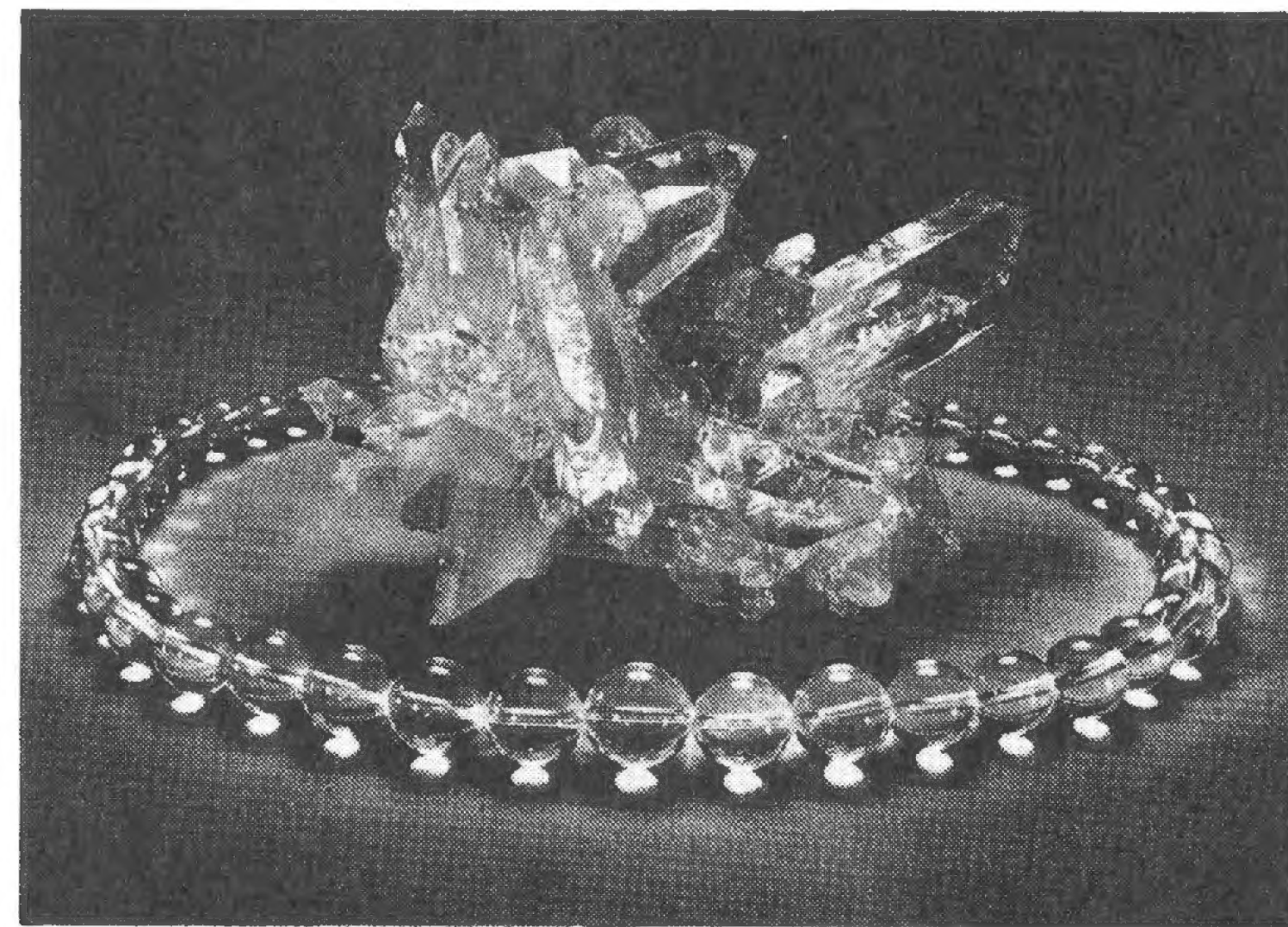
The all-new **Rock Stars** — Thursday at 10:30 p.m., Friday and Saturday at 9:00 and 10:30 p.m., Sunday at 9:00 p.m.

**Lights Fantastic** — Wednesday through Sunday at 5:00 p.m.

**Spotlight: The Beatles** — Wednesday and Thursday at 9:00 p.m., Friday through Sunday at 7:30 p.m.

Admission for adults is \$4.00 for evening presentations and \$3.50 for matinee (5:00 p.m.). Admission to all shows for children 10 and under and for senior citizens is \$2.00. Members' complimentary passes are **not** good for free admission to the light shows.

Summer hours begin on July 4 and will continue through Labor Day! The entire Academy will be open every day from 10 a.m. until 7:30 p.m. so take this time to visit your favorite residents of the aquarium and enjoy the science halls in the quiet evenings.



The San Francisco Gem and Mineral Society will present its 28th **Golden Gateway to Gems** at the Hall of Flowers, Golden Gate Park, on Saturday, August 7, 1982, 10 a.m. until 6 p.m. and on Sunday, August 8, 10 a.m. until 5 p.m. Featured will be "Jewelry through the Ages", along with cases of carvings, intarsias, general lapidary and mineral specimens from around the world. Live demonstrations of silversmithing, lost wax casting, carving and the actual faceting of

gemstones will be shown daily. Movies and lectures will complete the program. Hostesses will model exotic antique and modern hand wrought jewelry. Members of the California Academy of Sciences will be admitted at a special price of \$1.50 on presentation of their membership cards. General admission is \$2.00.

## Special Lecture

A Visit "Down Under" to  
AUSTRALIA AND NEW ZEALAND  
July 22

7:30 - 9:00 p.m.

Morrison Auditorium

Lecturer: Dr. Robert T. Orr

Where in the world does one go to see a "willy wag-tail"? A "sugar glider"? Or a long-nosed bandicoot?

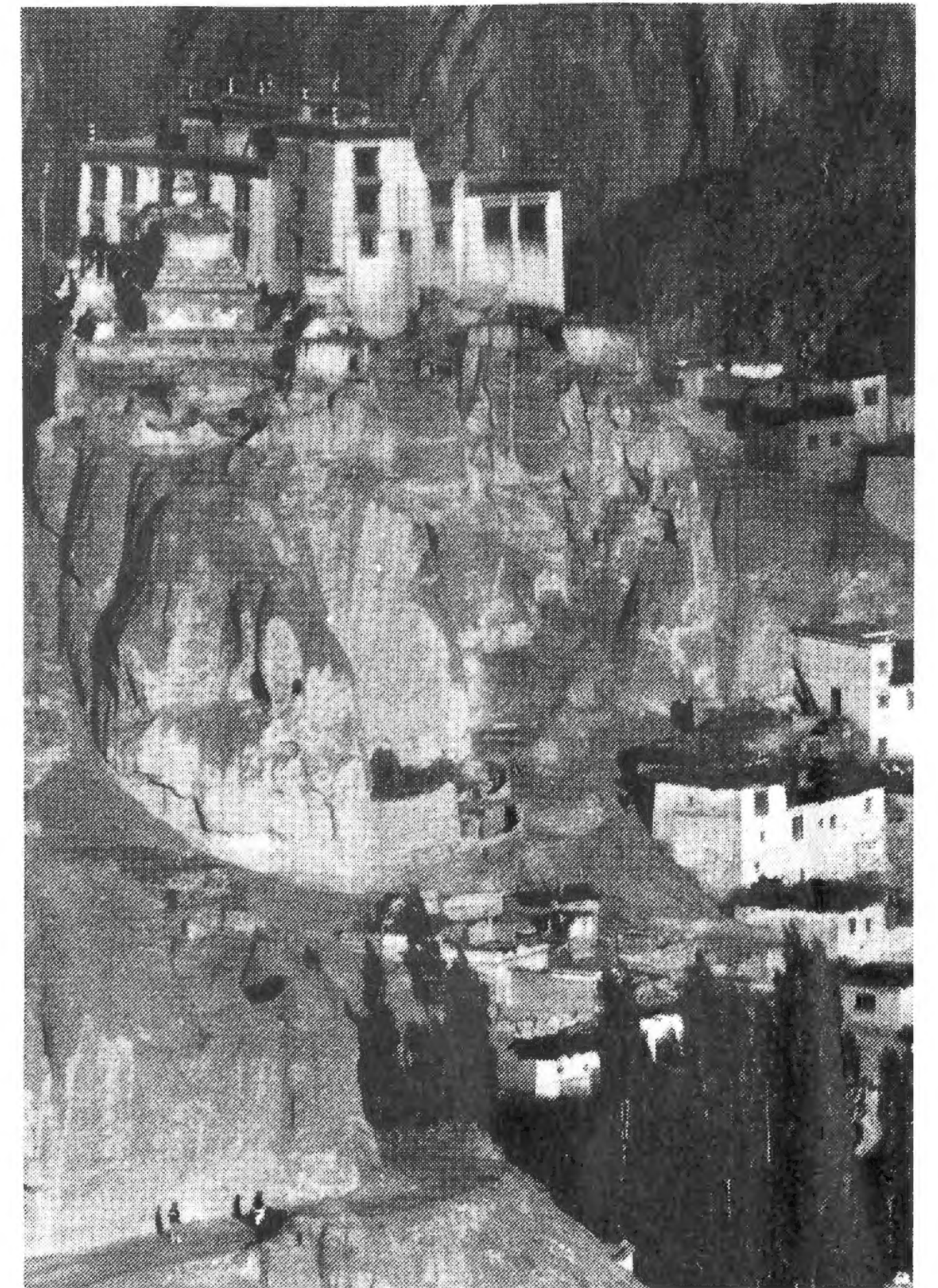
Why, to Australia of course! Join Dr. Robert T. Orr, Senior Scientist of the California Academy of Sciences, for an exciting slide/lecture tour through many of the diverse regions of Australia: the rain forests of Queensland and Victoria, the Outback, the Great Barrier Reef, and the south coast of Australia. Many exotic creatures and plants inhabit this geographically varied continent and we will enjoy slides of many of them, from satin and regent bowerbirds, to wallabies, to carpet snakes and more.

New Zealand offers its own special attractions for the naturalist including the thermal area of Rotorua, the spectacular scenery of Milford Sound, the birds of Fjordland, Antarctic beech forests, and fur seals, penguins, shags, and pintado petrels.

Join Dr. Orr as he travels "down under" in the comfort of Morrison Auditorium!

Dr. Orr has led three members' trips to Australia and New Zealand since 1974 and will lead another Academy tour to Australia this year, from September 18 - October 10, with a 6-day extension to New Zealand.

## Special Lecture



A NATURALIST'S VIEW OF KASHMIR AND LADAKH

Speaker: Dr. Robert Fleming, Jr.  
8:00 p.m., Wednesday, July 7, 1982  
Morrison Auditorium

Join Dr. Robert Fleming Jr. on a vicarious journey to the remote and exotic lands of Kashmir and Ladakh. The journey begins with the floating gardens of Srinagar, an exploration of the Dachigam Wildlife Sanctuary and an investigation of the forests, lakes and meadows of the Vale of Kashmir. We will then discover the timeless land of Ladakh, one of the last strongholds of Tibetan life, culture and religion in the Himalayas. Opened to Westerners in 1974, Ladakh is renowned for its ancient monasteries, spectacular high desert country scenery, and a Buddhist way of life scarcely touched by the technology of the twentieth century.

Dr. Fleming is one of the foremost Himalayan naturalists and co-author of the classic *Birds of Nepal*. Raised in India, and presently living in Kathmandu, Bob has led more than 100 treks over the past 20 years into the far reaches of the Himalayas, photographing and studying the birds, plants, wildlife, ecology and culture of this magnificent mountain range.

*Admission to this special lecture is free.*



### ATTENTION PHOTOGRAPHERS!

Sharpen your focus on nature with an Academy summer photography course. For information, call the Education/Travel Office at (415) 221-5100, ext. 211 or 215.

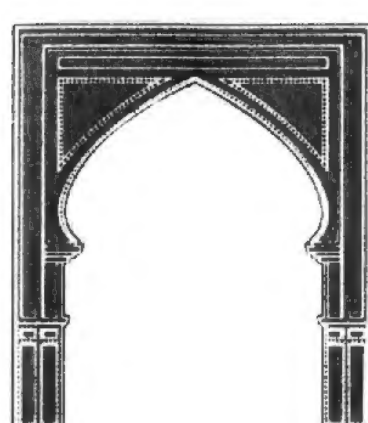
**MONO LAKE/BODIE PHOTO WORKSHOP**  
July 14 and August 11 (lectures)  
7 - 9:00 p.m.

July 31 - August 2 (Field Trip)

Instructor: Robert Holmes

Cost: \$110 members, \$125 non-members includes instruction and accommodations

High in the Eastern Sierra, Mono Lake remains a relic of a prehistoric age. A day will be spent photographing this surreal landscape from dawn to dusk before moving to a relic of more recent times. The ghost town of Bodie is suspended in time, looking as it did when the last miners abandoned the town several decades ago. We will spend the second day documenting this unique urban history of the American West.



## "The Heritage of Islam" Programs

### A LECTURE SERIES

#### "The Heritage of Islam"

Morrison Auditorium  
California Academy of Sciences

A series of six evening lectures will explore the historic traditions and contemporary connections that intertwine Western and Islamic civilizations.

• July 21 8:00 p.m.

**"People, Piety and Politics: An Introduction to the World of Islam"** Dr. Ira M. Lapidus, Professor of History and Chairman of the Center for Middle Eastern Studies, University of California, Berkeley.

• July 28 8:00 p.m.

#### "Calligraphy in the Arts of Islam"

Dr. Anthony Welch, Department of History In Art, University of Victoria, Victoria, B.C.

• August 18 8:00 p.m.

#### "The Faith of Islam: A Religion and a Way of Life"

Dr. Barbara Metcalf, Former Professor of History and South Asian Studies, University of Pennsylvania; author of *Islamic Revival in British India*.

• September 15

#### "The Islamic Community"

Dr. Robert Fernea, Professor of Anthropology and Middle Eastern Studies, University of Texas, Austin

• September 16 8:00 p.m.

#### "The Paradise Gardens of Islam"

Dr. Antony Hutt, Lecturer Islamic Art and Architecture, Coordinator World of Islam Festival, London.

• September 22 8:00 p.m.

#### "The Place of Science in Islamic Society"

Dr. George Saliba, Assistant Professor of Arabic and Islamic Sciences, Department of Middle East Languages and Cultures, Columbia University.

A special brochure has been mailed to the Academy membership describing the lecture series and other programs that have been planned in conjunction with the exhibit, "The Heritage of Islam." Details of lectures, courses, tours and a reservation form are included in the brochure.

For further information, please call the Education/Travel Office at (415) 221-5100, ext. 211 or 215.

### PROGRAMS

#### "The Stars of Islam"

August 3 - 17 (3 Tuesday evenings)

7 - 9:00 p.m.

Instructor: Dr. Walt Terris

In the Planetarium

After the fall of Rome, western science languished and the records of scientists, from Ptolemy to Euclid, might have been lost had it not been for the Islamic Renaissance. It was the Muslims who kept and nourished science, particularly astronomy. This scientific heritage is the subject of a three week course in Arabian astronomy.

#### "The Position of Women in Islam"

A film/lecture presentation

Thursday, September 16

2:00 p.m.

Morrison Auditorium

Lecturer: Dr. Elizabeth Warnock Fernea, lecturer on the Middle East and Professor of English, University of Texas, Austin

Dr. Fernea uses the medium of film to introduce the roles of women in the Islamic world.

### Peru Archaeological Discovery

July 14 - 30

The spectacular scenery of the Urubamba Valley and the snow-covered mountains of the Cordillera await Academy travellers in Peru. Dr. Dorothy Washburn, Chairman of the Academy's Department of Anthropology, will guide members to major archaeological sites such as Chan-Chan, Chavin de Huantar, Machu Picchu and the famous Nazca Lines. A trip by train to Lake Titicaca, the highest lake in the world, will complete this exciting tour. Cost is \$1750 plus air fare. For information, please call the Academy Travel Office at (415) 221-5100.

### American West Spectacular

July 21 - August 6

Join Academy members for a 17-day introduction to the natural history and ecology of the finest national parks and natural environments in the west. Highlights of this diverse itinerary include Yosemite and the High Sierra, Mono Lake and the White Mountains, Zion, Bryce and the Grand Canyon, and the pristine eco-systems of the Grand Tetons and Yellowstone National Park. Travel is by 15-passenger vans and by air. Cost is \$1250 per person for land arrangements and \$311 for air at current rates. For information and a brochure, please call Betchart Expeditions at (408) 245-9517.

### Kenya Safari

August 6-28

### Gorilla Tracking in Rwanda

August 26 - September 4

Kenya is a land of great contrasts, from broad sweeping savannah lands to lush mountain peaks. This special itinerary is designed to cover the diverse regions of this colorful African country. Dr. Robert Drewes will lead members on a safari that includes Tsavo National Park, Amboseli National Park, Mountain Lodge for night-time game viewing, Samburu National Park, and camping in the Lake Baringo area and the Maasai Mara Game Reserve. We will fly to Mombasa to relax on Kenya's scenic beaches before our return home. An optional extension into the jungle regions of Rwanda to meet, face-to-face, with the remarkable mountain gorillas is offered for those who wish to participate in a truly unique African experience. Cost is \$3190 for the Kenya portion, plus air fare. The Rwanda extension is \$1115 plus air fare. For information, please call Siemer & Hand, Ltd. at (415) 788-7186.

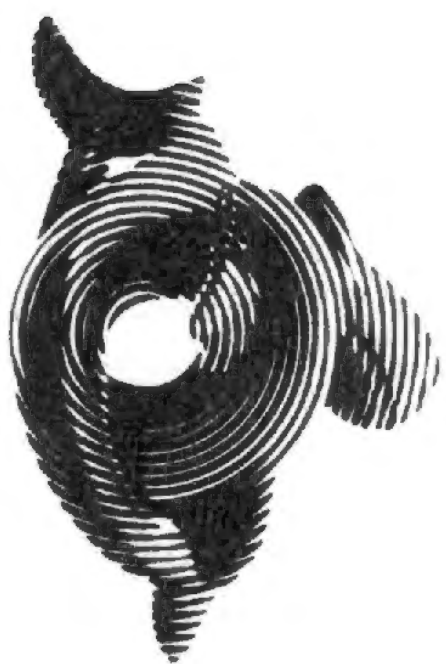
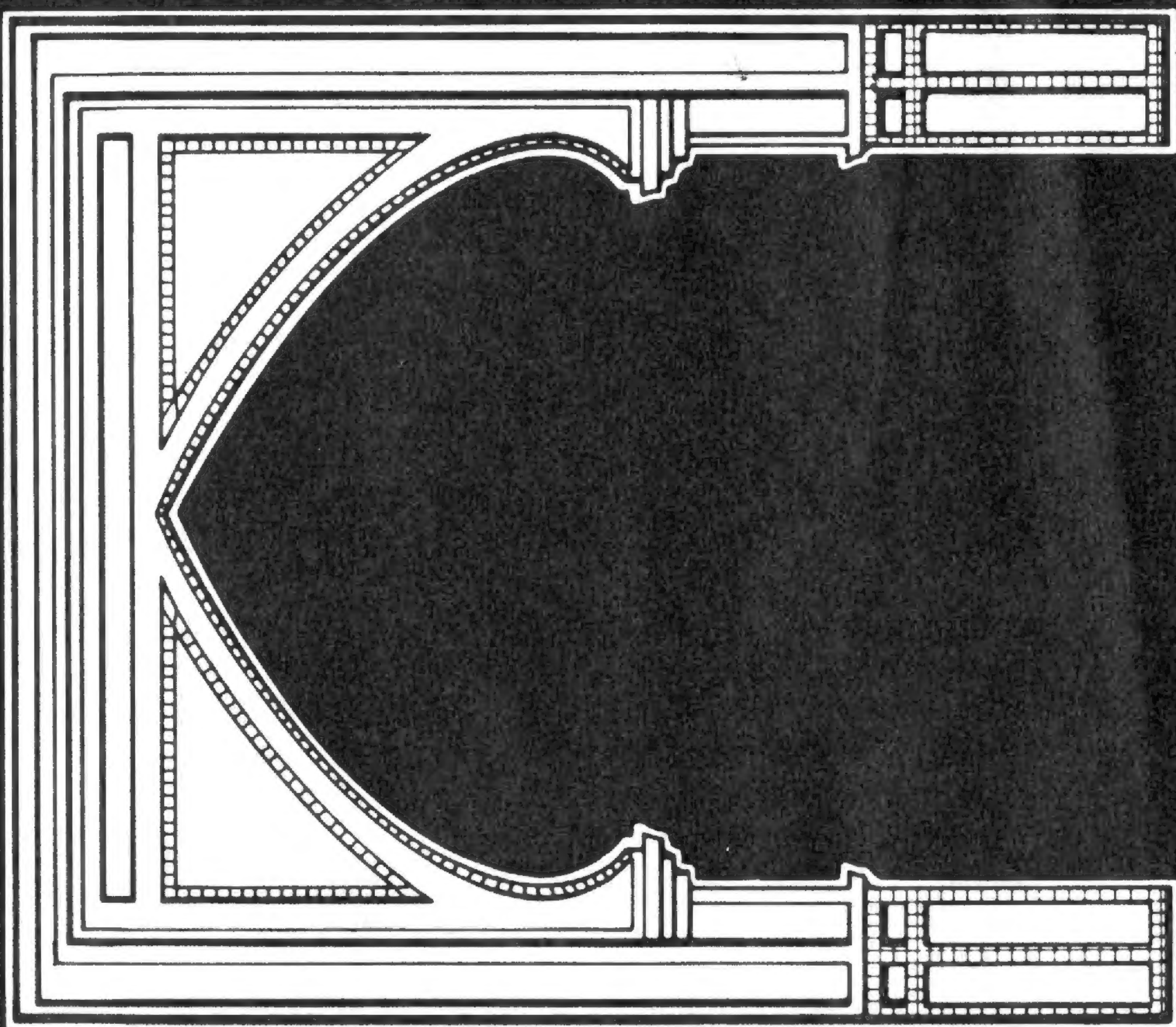
### Kashmir and Ladakh Walking Expedition

September 2 - 26

Attention vigorous and experienced hikers! With the guidance of Robert Fleming, Jr., one of the foremost Himalayan naturalists, Academy members will participate in a 25-day walking expedition to study the natural history and cultural diversity of Kashmir and Ladakh. A nine-day pony trek into the Vale of Kashmir highlights this special travel experience. Cost is \$2190 plus air fare. For information, please call Nature Expeditions at (415) 494-6572.



# California Academy of Sciences Newsletter July, 1982



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## A Safari in Australia

September 19 - October 10

Dr. and Mrs. Robert T. Orr will lead a trip "down under" to the fascinating continent of Australia, a country of great diversity with tropical and temperate rain forests, colorful deserts, and the Great Barrier Reef which teems with marine life. Highlights include visits to Sydney, Canberra, Melbourne, famous Ayer's Rock in the heart of the continent, Magnetic Island on the Great Barrier Reef, and Lamington National Park. A delightful one-week extension to the north island of New Zealand has also been planned. Cost for land portion is \$2860 and air is currently \$2083. The New Zealand extension is \$563, with no additional cost for air. For information, please call the Education/Travel Office at (415) 221-5100.

## Antarctica

Four departure dates:

November 13

November 30

December 24

January 17

Truly a unique and exciting destination, Antarctica is a land of abundant wildlife and startling, dramatic beauty. Cruising aboard the *Lindblad Explorer*, one may expect to see huge aggregations of penguins, albatross, terns and other birds, sea lions, fur seals, elephant seals, and porpoises. There will also be opportunities to visit the research stations of Chile and Argentina and the American Palmer Station. Dr. Sylvia Earle, of the Academy, will lead the December 24th and January 17th departures. For information and a colorful brochure, please call the Academy Travel Office at (415) 221-5100.